



Long Term Monitoring Strategy

- Why have a Long Term Monitoring Strategy?
- Background
- Describe Monitoring Phases
- Describe Long Term Monitoring Strategy
- Discuss Similarities & Differences
- Summarize



Existing Coalition Group MRP Requirements

- Background
 - No Water District MRP
 - First Coalition Group MRP (No. R5-2003-0826)
 - Existing Coalition Group MRP No. R5-2005-0833
- Monitoring Phases
 - No more than 3 Phases
 - Schedule
 - Sites
 - Frequency
 - Seasons
 - Minimum Monitoring Requirements Table



Existing Coalition Group MRP Requirements

- Minimum Monitoring Requirements Table
 - Physical Parameters
 - Drinking Water
 - Toxicity Tests
 - Pesticides
 - Metals
 - Nutrients



Existing Coalition Group MRP – Monitoring Phase 1

- Phase 1

- Physical Parameters
- Drinking Water Constituents
- Toxicity Testing, including TIEs
- Chemical Monitoring - Resampling
 - Resample site to estimate duration
 - Sample upstream to determine source



Existing Coalition Group MRP – Monitoring Phase 1 (cont.)

- Phase 1 continued
 - 303(d) Pollutants
 - Pesticide Monitoring from Implementation Plan Chapter
 - Pesticide Use Evaluation
 - Management Practices
 - Gather MP information through all 3 phases



Existing Coalition Group MRP – Monitoring Phase 2

- Phase 2
 - Phase 1 monitoring continued
 - All constituents of Table in MRP
 - Chemical analysis
 - More monitoring sites
 - Advancing to next phase
- Timing Expectation
 - Phase 2 beginning no later than two years after Phase 1 sampling began



Existing Coalition Group MRP – Monitoring Phase 3

- Phase 3
 - Same monitoring as in Phase 2
 - Continued evaluation of Management Practices
 - Determine significant changes in waste concentrations
 - Pesticide mixing, loading, & application practices
 - Pest management practices
 - Management practices to address waste
 - Cultural practices



Long Term Monitoring Strategy

- Long Term Monitoring Strategy
- Purpose
 - Address Comments Received
 - Clarify Monitoring Requirements
- Categories
 - Assessment Monitoring
 - Compliance Monitoring
- Inclusion in MRP Plan



Long Term Monitoring Strategy – Sections Combined

- Combined Sections
 - Types of Monitoring & Evaluation
 - Monitoring Phases
 - Flow Monitoring
 - Monitoring Schedule
- Moved Portion of Sections
 - Minimum Monitoring Requirements
 - Bioassessment Monitoring
 - Watershed Specific Requirements



Sections in Existing MRP vs Tentative MRP

Existing MRP

Section 1.a – Toxicity Testing

Section 1.b – Water Quality &
Flow Monitoring

Section 1.c – Pesticide Use
Evaluation

Section 1.d – Management
Practice Effectiveness

Tentative MRP

Compliance Monitoring -
Third paragraph

Assessment Monitoring -
Second paragraph

Compliance Monitoring -
Third paragraph

Compliance Monitoring -
Fourth paragraph



Sections in Existing MRP vs Tentative MRP

Existing MRP

Section 2 – Monitoring Phases,
Subsections A, B, & C

Section 3 - Historical Data

Section 4 – Minimum
Requirements

Bioassessment Monitoring

Watershed Specific
Requirements

Tentative MRP

Assessment & Compliance
Monitoring

Now Section I.A

Now Section I.F – Minimum
Analytical Monitoring
Requirements

Assessment Monitoring -
Paragraph 4

Assessment Monitoring -
Paragraph 10



Sections in Existing MRP vs Tentative MRP

Existing MRP

Section 5 – Flow Monitoring

Section 6 – Monitoring Seasons

Section 7 – Monitoring
Schedule

Section 8 – Monitoring Sites

Tentative MRP

Assessment Monitoring -
Paragraph 3

Now Section I.C

Assessment Monitoring -
Paragraph 1

Now Section I.B



Long Term Monitoring Strategy-Additional Language

- Additional Language–Assessment Monitoring
 - Describe Long Term Monitoring Strategy
 - Water Quality
 - Lab Analytical Data & Field Measured Parameters
 - Receiving Water Limitations
 - Bioassessment Monitoring
 - Toxicity Tests
 - Two Year Sampling Requirement
 - 10 Bullets of Assessment Monitoring
 - Submit Coordinated Monitoring Data



Long Term Monitoring Strategy-Additional Language

- Additional Language –
Compliance Monitoring
 - What is Compliance Monitoring?
 - Resampling Requirements
 - Timing for Resampling



Long Term Monitoring Strategy vs Monitoring Phases

- Phases vs. Long Term Monitoring Strategy
 - Similarities
 - Same sampling and re-sampling
 - Differences
 - “Mainstem” waterbody
 - Major, Intermediate, or Smaller waterbodies
 - Eliminates 20% requirement
 - Clear structure for assessing entire watershed
 - Outstanding Issue
 - Timeframe



Long Term Monitoring Strategy Summary

- Summary
 - Challenges
 - Flexibility of Long Term Monitoring Strategy
 - Long-term sampling proposed by Water Districts and Coalition Groups